

02-09-04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.

10/681,061

Confirmation No. 7845

Applicant

5

Sievers et al. October 7, 2003

Filed TC/A.U.

1616

Examiner

1010

Exammer

Not assigned

For

SUPERCRITICAL FLUID-ASSISTED NEBULIZATION AND BUBBLE DRYING

Docket No.

45-99A

Customer No.:

23713

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage for Express Mail in an envelope addressed to:

Commissioner for Patents.

PO Box 1450, Alexandria, VA 22313-1450

February 5, 2004

Date

Cathy Nelson

EV 412171697 US Express Mail Tracking Number

INFORMATION DISCLOSURE STATEMENT

Sir:

This application is a divisional of U.S. Application Serial No. 09/591,213, filed June 9, 2000, U.S. Patent No. 6,630,121. In accordance with 37 C.F.R. 1.98(d), copies of references cited in that application are not submitted, but will be provided upon request. Copies of PTO Form 1449s submitted in U.S. Application Serial No. 09/591,213 are enclosed.

It is believed that no fee is due with the submission of this Information Disclosure Statement. If this is incorrect, however, please charge the required fee and the fee for any extension of time needed to Deposit Account No. 07-1969.

Respectfully submitted,

Susan K. Doughty Reg. No. 43,595

GREENLEE, WINNER AND SULLIVAN, P.C.

5370 Manhattan Circle, Suite 201 Boulder, CO 80303

Telephone: (303) 499-8080 Facsimile: (303) 499-8089 E-mail: winner@greenwin.com

Attorney docket No. 45-99A can: February 5, 2004

Sheet 1 of 1

) °	RIGINALLY CITED I	RV FXAMINIFR INI 00/	501 213	
FEB 0 5 2004	Form PTO-1449			Sheet 1 of 1
TEM & TRADENI	ATTY DOCKET NO. 45-99A APPLICANT: Sievers et al.	SERIAL NO. 10/681,061	FILING DATE October 7 GROUP 1616	, 2003

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes/No

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

M. Adler et al., Stability and Surface Activity of Lactate Dehydrogenase in Spray-Dried Trehalose, J. Pharm. Sci. 88(2):199-208, 1999 S. D. Allison et al., Effects of Drying Methods and Additives on Structure and Function of Actin: Mechanisms of Dehydration-Induced Damage and Its Inhibition, Arch. Biochem. Biophys. 358(1):171-181, 1998 R. Sloan et al., Controlled Particle Formation of Biological Material Using Supercritical Fluids, presented at I.S.A.S.F. 6 th meeting on Supercritical Fluids - Chemistry and Materials, Nottingham, UK, pp. 169-175, April 10-13, 1999 M. Winters et al., Precipitation of Proteins in Supercritical Carbon Dioxide, J. Pharm. Sci. 85(6):586-593, 1996	 3, , , , , , , , , , , , , , , , , , ,
S. D. Allison et al., Effects of Drying Methods and Additives on Structure and Function of Actin: Mechanisms of Dehydration-Induced Damage and Its Inhibition, Arch. Biochem. Biophys. 358(1):171-181, 1998 R. Sloan et al., Controlled Particle Formation of Biological Material Using Supercritical Fluids, presented at I.S.A.S.F. 6 th meeting on Supercritical Fluids - Chemistry and Materials, Nottingham, UK, pp. 169-175, April 10-13, 1999 M. Winters et al., Precipitation of Proteins in Supercritical Carbon Dioxide, J. Pharm. Sci.	M. Adler et al., Stability and Surface Activity of Lactate Dehydrogenase in Spray-Dried
Actin: Mechanisms of Dehydration-Induced Damage and Its Inhibition, Arch. Biochem. Biophys. 358(1):171-181, 1998 R. Sloan et al., Controlled Particle Formation of Biological Material Using Supercritical Fluids, presented at I.S.A.S.F. 6 th meeting on Supercritical Fluids - Chemistry and Materials, Nottingham, UK, pp. 169-175, April 10-13, 1999 M. Winters et al., Precipitation of Proteins in Supercritical Carbon Dioxide, J. Pharm. Sci.	Trehalose, J. Pharm. Sci. 88(2):199-208, 1999
Biophys. 358(1):171-181, 1998 R. Sloan et al., Controlled Particle Formation of Biological Material Using Supercritical Fluids, presented at I.S.A.S.F. 6 th meeting on Supercritical Fluids - Chemistry and Materials, Nottingham, UK, pp. 169-175, April 10-13, 1999 M. Winters et al., Precipitation of Proteins in Supercritical Carbon Dioxide, J. Pharm. Sci.	S. D. Allison et al., Effects of Drying Methods and Additives on Structure and Function of
Fluids, presented at I.S.A.S.F. 6 th meeting on Supercritical Fluids - Chemistry and Materials, Nottingham, UK, pp. 169-175, April 10-13, 1999 M. Winters et al., Precipitation of Proteins in Supercritical Carbon Dioxide, J. Pharm. Sci.	
	Fluids, presented at I.S.A.S.F. 6 th meeting on Supercritical Fluids - Chemistry and Materials,

EX.	A	M	П	V	E.I	R

DATE CONSIDERED

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

7_

ORIGINALLY CITED IN 09/591,213



Sheet 1 of 7

	200		
ATTY DOCKET NO. 45-99A	SERIAL NO. 10/681,061	FILING DATE	October 7, 2003
APPLICANT Sievers et al.		GROUP 161	.6

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
IIIIIII	6,165,463	12/26/00	Platz et al.	424	130.1	
	6,151,798	11/28/00	Petersen	34	304	
	6,136,346	10/24/00	Eijamāl et al.	424	488	
	6,113,948	09/05/00	Heath et al.	424	499	
	6,103,270	0815/00	Johnson et al.	424	489	
	6,095,134	08/01/00	Sievers et al.	128	200.14	
	6,080,762	06/27/00	Allen et al.	514	337	
	6,077,543	06/20/00	Gordon et al.	424	489	
	6,071,428	06/06/00	Aldous et al.	252	1	
	6,068,857	05/30/00	Weitchies et al.	424	489	
	6,063,910	05/16/00	Debenedetti et al.	530	418	
	6,063,138	05/16/00	Hanna et al.	23	295R	
	6,058,624	05/09/00	Bach et al.	34	374	
	6,056,791	05/02/00	Weidner et al.	23	295R	
	6,054,179	04/25/00	Combes et al.	427	212	
	6,051,256	04/18/00	Platz et al.	424_	489	
,	6,019,968	02/01/00	Platz et al.	424	130.1	
	6,001,336	12/14/99	Gordon	424	46	
:	5,994,314	11/30/99	Eljamal et al.	514	44	
,	5,993,805	11/30/99	Sutton et al.	424	94.1	
· · · · · · · · · · · · · · · · · · ·	5,993,783	11/30/99	Eljamal et al.	424	46	
	5,985,248	11/16/99	Gordon et al.	424	46	
	5,976,574	11/02/99	Gordon	424	489	
	5,955,108	09/21/99	Sutton et al.	424	489	
	5,928,469	07/27/99	Franks et al.	159	48.1	



Sheet 2 of 7

SERIAL NO. 10/681,061	FILING DATE October 7, 2003
	GROUP 1616
	SERIAL NO. 10/681,061

5,922,354	07/13/99	Johnson et al.	424	489	
5,851,453	12/22/98	Hanna et al.	264	5	
5,795,594	08/18/98	York et al.	424	489	
5,725,987	03/10/98	Combes et al.	430	137	
 5,720,938	02/24/98	Schutt et al.	424	9.51	
5,695,741	12/09/97	Schutt et al.	424	9.52	
5,695,701	12/09/97	Funder et al.	264	117	
5,654,007	08/05/97	Johnson et al.	424	489	
5,647,142	07/15/97	Andersen et al.	34	373	
5,639,443	06/17/97	Schutt et al.	424	9.52	
5,639,441	06/17/97	Sievers et al.	424	9.3	
 5,531,219	07/02/96	Rosenberg	128	203/12	
 5,357,686	10/25/94	Jensen	34	169	
5,100,509	03/31/92	Pisecky et al.	159	4.2	
 5,098,893	03/24/92	Franks et al.	514	54	
 4,734,451	03/29/88	Smith	524	493	
 4,734,227	03/29/88	Smith	264	13	
 4,582,731	04/15/86	Smith	427	421	
4,070,765	01/31/78	Hovmand et al.	34	371	
4,070,703					1

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes/No
960 651 A2	12/01/99	EP	B01F 7/18		
 820 415 B1	11/03/99	EP	B65D 83/14		
 767 702 B1	12/16/98	EP	B01J 2/04	A61K 9/16	
706 421 B1	12/16/98	EP	B01J 2/04	B05B 7/06	
383 569 B1	05/18/94	EP	C12N 9/96	C12N 11/00	



Sheet 3 of 7

Form PTO-1449		
ATTY DOCKET NO. 45-99A	SERIAL NO. 10/681,061	FILING DATE October 7, 2003
APPLICANT Sievers et al.		GROUP 1616

		<u> </u>				
	370 268	05/30/90	EP	B29C 33/60		
	GB 2,334,900 A	09/08/99	UK	B01J 2/04	B01D 1/18	
	GB 2,322,326 A	08/26/98	UK	B01J 2/04	A61K 9/16	•
	WO 00/61178	10/19/00	PCT	A61K 38/28	A61P 5/06	
	WO 00/15262	03/23/00	PCT	A61K 47/36		
	WO 00/10541	03/02/00	PCT	A61K 9/72	A61K 9/14	
	WO 00/00215	01/06/00	PCT	A61K 39/00		
	WO 99/66903	12/29/99	PCT	A61K 9/12	·	
	WO 99/59710	11/25/99	PCT	B01J 2/04	A61K 9/16	
	WO 99/44733	09/10/99	PCT	B01J 2/04	A61K 9/16	
	WO 99/19215	04/22/99	PCT	B65B 1/36		
	WO 99/16422	04/08/99	PCT.	A61K 9/00		
	WO 99/16421	04/08/99	PCT	A61K 9/51		
	WO 99/16420	04/08/99	PCT	A61K 9/00		
	WO 99/16419	04/08/99	PCT	A61K 9/00		-
	WO 98/58722	12/30/98	PCT	B01D 11/04	B01J 2/02	
	WO 98/36825	08/27/98	PCT	B01J 2/04	A61K 9/16	
	WO 98/29141	07/09/98	PCT	A61L 9/04	·	
	WO 98/29140	07/09/98	PCT	A61L 9/04		
	WO 98/29098	07/09/98	PCT	A61K 9/14	B29B 9/00	
	WO 98/29096	07/09/98	PCT	A61K 9/12		
	WO 98/17676	04/30/98	PCT	C07J 31/00	A61K 31/56	
	WO 97/41833	11/13/97	PCT	A61K 9/12	·	
	WO 97/41031	11/06/97	PCT	B65B 1/04	B67C 3/00	
	WO 96/32149	10/17/96	PCT	A61M 11/00		
	WO 96/00610	01/11/96	PCT	B01J2/04	A61K 9/16	
	WO 95/01324	01/12/95	PCT	C07C 215/60		



Sheet 4 of 7

Form PTO-1449		
ATTY DOCKET NO. 45-99A	SERIAL NO. 10/681,061	FILING DATE October 7, 2003
APPLICANT Sievers et al.		GROUP 1616

,	wo	95/01221	01/12/95	PCT	B01J2/04	B05B 7/06	
	OTE	IER PRIOR A	RT (includir	ig Author, T	itle, Date, Pertin	ent Pages, etc.)	
		Adler, M. and Lee, G. (1999), "Stability and Surface Activity of Lactate Dehydrogenase in Spray-Dried Trehalose," J. Pharm. Sci. 88:199-208					
		Allison, I	Allison, D.S. et al. (1998), "Effects of Drying Methods and Additives on Structure and Function of Actin: Mechanisms of Dehydration-Induced Damage and Its Inhibition," Arch. Biochem. Biophys. 358:171-181				ves on Structure
			et al. (1999 . Res. Dev.		f the Physical Fo	rm of Salmeter	ol Xinafoate,"
		Developn	r, J.F. et al. (nent of Stabl n. 45:231-23	le Lyophilize	lication of Infrared Protein Formu	ed Spectroscopy lations," Eur. J.	y to Pharm.
		Freeze-D	ried Interleu	kin-1 Recep	al Factors Affect tor Antagonist: C Biophys. 331:249	lass Transition	Stability of and Protein
			Crowe, J.H. et al. (1998), "The Role of Vitrification in Anhydrobiosis," Annu. Rev Physiol. 60:73-103				
		Dagani, F	Dagani, R. (2000), "Better, Cheaper 'Green' Solvent," Chem. Eng. News, p. 11				News, p. 11
		Domingo rapid exp	Domingo, C. et al. (1997), "Precipitation of ultrafine organic crystals from the rapid expansion of supercritical solutions over a capillary and a frit nozzle," J. Supercritical Fluids 10:39-55			als from the	
		Dong, A.	et al. (1990 e amide I inf), "Protein se rared spectr	econdary structur a," Biochem. 29:	es in water fron 3303-3308	n second-
	Dong, A. and Caughey, W.S. (1994), "Infrared methods for study of hemoglobin reactions and structures," Methods Enzymol. 232:139-175						
		Dong, A. et al. (1995), "Infrared Spectroscopic Studies of Lyophilization- and Temperature-Induced Protein Aggregation," J. Pharm. Sci. 84:415-424					
·		of Freeze	Spray and	Superciritca	ction of Stable P I Drying," presen UK (7-9 July 199	ted at the World	A Comparison I Congress on
		activity o	of porcine pa	nse, T. (2000 increatic lipa natic 9:57-64	0), "A simple pro se by supercritic !	cess for increas al carbon dioxid	ing the specific le treatment," J.



Sheet 5 of 7

Form PTO-1449		
ATTY DOCKET NO. 45-99A	SERIAL NO.10/681,061	FILING DATE October 7, 2003
APPLICANT Sievers et al.		GROUP 1616

·	Hybertson, B.M. (1993), "Pulmonary Drug Delivery of Fine Aerosol Particles from Supercritical Fluids," J. Aerosol Medicine: Deposition, Clearance and Effects in the Lung, 6,4: 275-285
	Kamihira, M. et al. (1987), "Sterilization of Microorganisms with Superciritcal Carbon Dioxide," Biol. Chem. 51(2):407-412
	Lai, M.C. and Topp, E.M. (1999), "Solid-State Chemical Stability of Proteins and Peptides," J. Pharm. Sci. 88:489-500
	Larson, K.A. and King, M.L. (1986), "Evaluation of Supercritical Fluid Extraction in the Pharmaceutical Industry," Biotechnol. Prog. 2:73-82
	Manning, M.C. et al. (1989), "Stability of ProteinPharmaceuticals," Pharm. Res. 6:903-918
	Meyer, J.D. et al. (1998), "Preparation and in vitro characterization of gentamycin- impregnated biodegradable beads suitable for treatment of osteomyelitis," J. Pharm. Sci. 87:1149-1154
	Mohamed, R.S. et al. (1988), "Solids Formation After the Expansion of Supercritical Mixtures," in <u>Supercritical Fluid Science and Technology</u> , Johnston, D.P. et al. (eds.), Am. Inst. of Chem. Eng. Annual Meeting, Washington, DC, November 27 - December 2, 1988), pp. 357-378
	Palakodaty, S. and York, P. (1999), "Phase Behavioral Effect on Particle Formation Processes Using Supercritical Fluids," Pharm. Res. 16(7):976-985
	Palakodaty, S. et al. (1998), "Superciritical fluid processing of materials from aqueous solutions: the application of SEDS to lactose as a model substance," Pharm. Res. 15:1835-1843
	Prestrelski, S.J. et al. (1993), "Dehydration-induced Conformational Transitions in Proteins and Their Inhibition by Stabilizers," Biophys. J. 65:661-671
	Randolph, T.W. et al. (1993), "Sub-micrometer-sized biodegradable particles of poly(L-lactic acid) via the gas antisolvent spray precipitation process," Biotechnol. Prog. 9:429-435
 	Reverchon, E. (1999), "Supercritical antisolvent precipitation of micro- and nanoparticles," J. Supercritical Fluids 15:1-21
	Reverchon, E. et al. (1995), "Solubility and Micronization of Griseofulvin in Supercritical CHF ₃ ," Ind. Eng. Chem. Res. 34:4087-4091
	Sarbu, T. et al. (2000), "Non-fluorous polymers with very high solubility in supercritical CO. down to low pressures," Nature 405:154-168



Sheet 6 of 7

Form PTO-1449		
ATTY DOCKET NO. 45-99A	SERIAL NO. 10/681,061	FILING DATE October 7, 2003
APPLICANT Sievers et al.		GROUP 1616

Shekunov, B. Yu. Et al. (2000), "Optical Characterisation and Mechanism of Antisolvent Precipitation in Turbulent Flow," Proc. of the 7 th Meeting on Supercritical Fluids, Particules Design, Materials and Natural Products Processing, Tome 1, Antibes/Juan-Les-Pins, France, December 6,7,8, 2000, pp. 65-70
Shekunov, B. Yu. Et al. (2000), "Precipitation of Acetaminophen and Pacetoxyacetanilide in Supercritical CO ₂ ," Proc. of the 7 th Meeting on Supercritical Fluids, Particules Design, Materials and Natural Products Processing, Tome 1, Antibes/Juan-Les-Pins, France, December 6,7,8, 2000, pp. 111-116
Shekunov, B. Yu. et al. (1999), "Crystallization process in turbulent supercritical flows," J. Cryst. Growth 198/199:1345-1351
Shishikura, A. et al. (1994), "Separation and Purification of Organic Acids by Gas Antisolvent Crystallization," J. Agric. Food Chem. 42:1993-1997
Sievers, R.E. et al. (1999), "Formation of Aqueous Small Droplet Aerosols Assisted by Supercritical Carbon Dioxide," Aersol Sci Technol. 30:3-15
Sloan, R. et al. (1999), "Controlled Particle Formation of Biological Material Using Supercritical Fluids," presented at I.S.A.S.F. 6 th Meeting on Supercritical Fluids - Chemistry and Materials (10-13 April 1999), Nottingham, UK (Proc. ISBN 2-905-267-30-5), 6 pp.
St. John, R.J. et al. (1999), "High Pressure Fosters Protein Refolding from Aggregates at High Concentrations," Proc. Natl. Acad. Sci. 96:13029-13033
Tom, J.W. and Debenedetti, P.G. (1991), "Formation of Bioerodible Polymeric Microspheres and Microparticles by Rapid Expansion of Supercritical Solutions," Biotechnol. Prog. 7:403-411
Winters, M.A. et al. (1996), "Precipitation of proteins in supercritical carbon dioxide," J. Pharm. Sci. 85:586-594
York, P. (1999), "Strategies for particle design using supercritical fluid technologies," PSTT 2(11):430-440

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet 1 of 2

FILING DATE: October 7, 2003
GROUP: 1616

U.S. PATENT DOCUMENTS

		U.S. F	TENT DUCUMENTS			
Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
Millar	5,864,923	02/02/99	Rouanet et al.	23	295 R	
	5,770,559	06/23/98	Manning et al.	514	2	
	5,707,634	01/13/98	Schmitt	424	400	
	5,301,664	04/12/94	Sievers et al.	128	200.23	
	5,266,205	11/30/93	Fulton et al.	210	639	
	4,970,093	11/13/90	Sievers et al.	427	38	
	4,845,056	07/04/89	Yamanis	501	12	
				<u></u>		

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
	0 906 951 A3	04/07/99	EP	C12N 1/04		
	0 906 951 A2	05/19/99	EP	C12N 1/04		
	0 711 586 Bi	08/23/00	EP	B01D 1/18		
	0 667 322	08/16/95	EP	C04B 35/00		
	WO 95/21688	08/17/95	PCT	B01J 2/00		
	WO 95/03106	02/02/95	PCT	B01D 15/08		
=====						<u> </u>

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

Edwards et al., (1998), "Recent advances in pulmonary drug delivery using large, porous inhaled particles," J. Appl. Physiol. 85:379-385
Hansen et al., (1992), "Supercritical Fluid Transport - Chemical Deposition of Films," Chem. Mater. 4:749-752
Johnson et al., (1996), "Electrostatic-Enhanced Atomization for Spray Drying of Milk," J. Lebensmwiss 4Technol. 29:71-81

9

ORIGINALLY CITED IN 09/591,213



Sheet 2 of 2

Form PTO-1449		
ATTY DOCKET NO. 45-99A	SERIAL NO. 10/681,061	FILING DATE: October 7, 2003
APPLICANT: Sievers et al.		GROUP: 1616

Sarbu et al., (May 2000), "Non-fluorous polymers with very high solubility in supercritical CO, down to low pressures." Nature 405:165-168
Sato et al., (1984), "The Production of Essentially Uniform-Sized Liquid Droplets in Gaseous or Immiscible Liquid Media Under Applied A.C. Potential," J. Electrostatics 15:237-247
Sievers et al., (1996). "Supercritical CO ₂ -Assisted Nebulization for the Production and Administration of Drugs," J. Aerosol. Sci. 27:S497-S498
Sievers et al., (1998), "Supercritical CO ₂ -assisted methods for the production and pulmonary administration of pharmaceutical aerosols," J. Aerosol Sci. 29:S1271-S1272
Winters et al. (Feb 1999), "Protein Purification with Vapor-Phase Carbon Dioxide," Biotechnol. Bioeng. 62(3):247-258
Xu, C.Y. et al., (1998), "Supercritical carbon dioxide assisted aerosolization for this film deposition, fine powder generation, and drug delivery," Green Chemistry: Frontiers in Benign Chemical Synthesis and Processing, Oxford Press, Oxford pp. 312-335

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.





Page 1 of 1

Form PTO 1449		
ATTY DOCKET NO. 45-99A	SERIAL NO. 10/681,061	FILING DATE October 7, 2003
APPLICANT Sievers et al.	*	GROUP 1616

U.S. PATENT DOCUMENTS

Exmr Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1	6,197,836	3/6/01	Riede et al.	516	31	
	2	20010000036	3/15/01	Riede et al	516	31	11/30/00

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes/No

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

	1					
1 1						
1 1						
1						
1						
		•				
1 1						
1 (
1 1						
		1				

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet 1 of 1

Form PTO-1449		
ATTY DOCKET NO. 45-99A	SERIAL NO. 10/681,061	FILING DATE: October 7, 2003
APPLICANT Sievers et al.		GROUP: 1616

U.S. PATENT DOCUMENTS

Exmr. Initial	- 	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

·	Document Number	Date	Country	Class	Subclass	Translation Yes/No

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

	Edwards, AD. et al., "The Structure and Morphology of Poly (L-Lactide) Particles Formed By Spray Drying and Solution Enhanced Dispersion By Supercritical Fluids (SEDS)" (April 1999) Proceedings of the 18 th Pharmaceutical Technology Conference, Vol. 1, pp 37-44							
EXAMINER	DATE CONSIDERED							
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								



Page 1 of 1

Form PTO 1449		
ATTY DOCKET NO. 45-99A	SERIAL NO. 10/681,061	FILING DATE October 7, 2003
APPLICANT Sievers et al.		GROUP 1616

U.S. PATENT DOCUMENTS

Exmr Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1	5,833,891	11/10/98	Subramaniam et al.	264	7	
			1				

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
-						·

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.